

## Human Buserelin - Purified

**Catalog No.:** PA1177X

**Quantity:** 5 mg

**Concentration:** 1.0 mg/ml

**Background:** Buserelin(Receptal) belongs to the group of gonadotrophin releasing hormone (gonadorelin) analogues (LHRH agonist). It acts on the pituitary gland which controls the amount of many different types of hormones (chemical messengers). Buserelin alters the amount of hormones, particularly the oestrogens androgens, this alteration of hormone levels can be exploited to treat cancers of the prostate gland, which are stimulated to grow by testosterone.

**Species:** Human

**Source:** Synthetic

**Format:** **State:** Lyophilized purified protein (sterile filtered)  
**Purity:** >98% Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Reconstitution:** Restore in sterile 18Mohm-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Description:** Buserelin lowers the levels of testosterone, which starves the tumour of testosterone and causes it to shrink.

**AA Sequence:**

Buserelin contains 9 amino acids Glu-His-Trp-Ser-Tyr-D-Ser(tBu)-Leu-Arg-Pro-NH<sub>2</sub>.

**Molecular weight:** 1239.44 Dalton

**Storage:** Prior to reconstitution stable at RT for 3 weeks.  
Following reconstitution store the protein undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  
Shelf life: one year from despatch.